

CUSTOMER NO.: 24498
Ser. No.10/572,089
Final Office Action dated: 10/31/07
Response dated: 01/29/08

PATENT
PF030146

Remarks/Arguments

Claim 1 has been amended and claims 7-12 are newly added. Support for these amendments can be found on page 3 lines 29-35 and page 4 lines 15-19 and lines 20-31 of the specification.

35 U.S.C. §103

Claims 1-6 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Ammar et al., (US 2004/0203528 A1) in view of Birleson et al. (US 2007/0182866).

The present claimed invention provides an outdoor unit of a reception terminal that includes a return channel. The return channel includes a local oscillator with a frequency that can be selected from at least two frequencies. A transposition means transposes a signal to be transmitted using the signal provided by the local oscillator. A wideband filtering means allows through signals whose frequency corresponds to the transposed signal independently from the frequency of the local oscillator. A configurable rejection filter depending on the frequency selected for the local oscillator transforms the waveguide into a filtering guide if required. Amended claim 1 contains features similar to those discussed above.

The present claimed invention provides "an upgradeable product capable of covering several bands or sub-bands, which can be easily configured and installed on site without the intervention of a professional so as to noticeably reduce installation costs" (Page 2, lines 1-4). The wideband filtering includes a waveguide structure and cover for activating or deactivating a rejection filter.

It is submitted that neither Ammar et al., nor Birleson et al., teach or discuss an outdoor unit of a reception terminal comprising wideband filtering means and a configurable rejection filter depending on the frequency selected for a local oscillator.

Ammar et al. describe a "lightweight millimeter wave outdoor unit [that] includes a lightweight housing with a heat sink and mounting member configured for mounting on an antenna to form a wireless link" (Abstract). The outdoor unit includes transposition means, a bandpass filter and amplifier (Figure 2). The "quick connect/disconnect" assembly is operative with the housing for allowing the housing to be rapidly connected and disconnected to the antenna" [0009]).

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The Office Action asserts that Ammar et al. discloses a housing assembly, including a cover, that mounts the various boards for functional interoperation. Ammar et al. describe a housing member that "comprises a cover on which the waveguide ports are formed" ([0011]). Specifically, "waveguide openings... in the housing cover... vary in size depending on the desired operating frequency band" ([0098]). The Office Action further asserts that Ammar et al. disclose an "outdoor unit... of a reception terminal including a return channel, wherein the return channel comprises: a transposition means (read as mixer) that transposes a signal to be transmitted using the signal provided by the local oscillator..., a wideband filtering means that allows through signals whose frequency corresponds to the transposed signal independently from the frequency of the local oscillator... and a waveguide into a filtering guide..."

Additionally, as admitted in the Office Action, Ammar et al. do not disclose or suggest "a local oscillator providing a signal with a frequency that can be selected from at least two frequencies" as is still recited in amended claim 1 of the present invention.

It is submitted that Ammar et al. do not describe "a wideband filtering means that allows through signals whose frequency corresponds to the transposed signal independently from the frequency of the local oscillator, and a configurable rejection filter depending on the frequency selected for the local oscillator," as described in the present amended claims. Ammar et al. describe waveguide openings that vary in size depending on the desired operating frequency band, but do not describe a configurable rejection filter depending on the frequency selected for the local oscillator," as recited in the amended claim 1 of the present invention.

Additionally, as admitted in the Office Action, Ammar et al. do not disclose or suggest "a local oscillator providing a signal with a frequency that can be selected from at least two frequencies" as is still recited in amended claim 1 of the present invention.

Therefore, it is respectfully submitted that Ammar et al. neither disclose nor suggest "a wideband filtering means that allows through signals whose frequency corresponds to the transposed signal independently from the frequency of the local oscillator, and a configurable rejection filter depending on the frequency selected for the local oscillator" as recited in the amended claim 1 of the present invention.

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Birleson et al. describe "a broadband integrated receiver for receiving input signals and outputting composite video and audio signals" (Abstract). "The receiver employs an up-conversion mixer and a down-conversion mixer in series to produce an intermediate signal. An intermediate filter between the mixers performs coarse channel selection. The down-conversion mixer may be an image rejection mixer to provide additional filtering" (Abstract).

The Office Action asserts that Birleson et al. discloses "a local oscillator providing a signal with a frequency that can be selected from at least two frequencies." Birleson et al. do not describe "a wideband filtering means that allows through signals whose frequency corresponds to the transposed signal independently from the frequency of the local oscillator, and a configurable rejection filter depending on the frequency selected for the local oscillator," as described in the present amended claims. Birleson et al. describe a local oscillator with a frequency that can be selected from at least two frequencies, but do not describe "a configurable rejection filter depending on the frequency selected for the local oscillator," as recited in the amended claim 1 of the present invention.

Therefore, it is respectfully submitted that Birleson et al. also neither disclose nor suggest "a wideband filtering means that allows through signals whose frequency corresponds to the transposed signal independently from the frequency of the local oscillator, and a configurable rejection filter depending on the frequency selected for the local oscillator" as recited in the amended claim 1 of the present invention.

Thus, it is submitted that since neither Ammar et al. nor Birleson et al. teach or suggests "a wideband filtering means that allows through signals whose frequency corresponds to the transposed signal independently from the frequency of the local oscillator, and a configurable rejection filter depending on the frequency selected for the local oscillator" as recited in the amended claim 1 of the present invention.

In view of the above remarks and amendments to the claims, it is respectfully submitted that there is no 35 USC 112 enabling disclosure provided by Ammar et al. and Birleson et al. when taken alone or in any combination, that makes the present invention as claimed in claim 1 unpatentable. As claims 2-6 are dependent on independent claim 1, it is respectfully submitted that claims 2-6 are allowable for the same reasons as discussed above in regards to claim 1. Thus it is further respectfully submitted that this rejection has been satisfied and should be withdrawn.

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Having fully addressed the Examiner's rejections it is believed that, in view of the preceding amendments and remarks, this application stands in condition for allowance. Accordingly then, reconsideration and allowance are respectfully solicited. If, however, the Examiner is of the opinion that such action cannot be taken, the Examiner is invited to contact the applicants' representative at (609) 734-6804, so that a mutually convenient date and time for a telephonic interview may be scheduled.

No fee is believed due. However, if a fee is due, please charge the additional fee to Deposit Account 07-0832.

Respectfully submitted,

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